

ABSTRACT OF THE DISCLOSURE

A process for producing low-density composite components as disclosed herein involves forming a compacted and curable pre-preg into a selected level of compaction whereby voids are capable of forming in the compacted curable pre-preg. The compacted curable pre-preg is then cured at a pressure sufficiently low to permit evolving gases to form voids in the pre-preg as the pre-preg cures into the composite article. The pre-preg is only partially debulked in the process. Rocket nozzle components may be produced with reduced densities while still exhibiting satisfactory erosion and other characteristics desired for products subject to the harsh erosive environment of a rocket motor.

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